

The MMST System Information Bulletin

MAY 1998

PHOENIX DEVELOPS INITIAL MMST SYSTEM PLAN

The Phoenix Medical Strike Team (PMST) recently developed and submitted their initial System Plan to the U.S. Public Health Service. Overall, the Phoenix initial plan addresses the six components of the MMST System in a comprehensive manner.

The PMST plans to utilize a combined approach within the context of a unified, Incident Management System (IMS) (i.e., an operational integration and administrative augmentation) to manage a response to a WMD incident.

Principal coordination of the Phoenix planning effort is managed through the PMST Steering Committee. The Committee is chaired by a representative from the Phoenix Fire Department (PFD) Medical Services Division. In adopting an inclusive approach, the Committee membership is made up of representatives from agencies likely to be involved in managing a WMD incident response. The agencies include PFD Medical Services Division, PFD Dispatch & Deployment, Valley Fire Chiefs Association, Maricopa County Medical Examiner's Office, Arizona Department of Public Safety, State of Arizona and Maricopa County Health Departments, City of Phoenix and Maricopa County Departments of Emergency Management, Arizona Hospital Association, and the Samaritan Regional Poison Control Center.

The PMST Steering Committee members serve as chairpersons on a series of subcommittees that address specific planning issues pertaining to the PMST. The four standing subcommittees are as follows: (1) Hospitals, (2) Equipment, (3) Patient Care, and (4) Operations.

The Phoenix Steering Committee and subcommittees have ensured that key functions of the PMST and system have been identified and addressed and PMST objectives and structure have been defined.

For additional information regarding the Phoenix initial plan, please contact:

City of Phoenix
Emergency Management Coordinator
Mr. Steve Charvat, (602) 495-2077

TEXAS A&M DESIGNATED AS NATIONAL COUNTERTERRORISM CENTER

Congress has designated a member of the Texas A&M University System as a national counter-terrorism training center.

Recognized internationally for its emergency response training programs and facilities, the **Texas Engineering and Extension Service (TEEX)** has been designated as the **National Emergency Response and Rescue Training Center (NERRTC)**. The designation came through a provision in the U.S. Senate by Senator Kay Bailey Hutchison. Congress passed legislation in the 1998 Appropriations Bill for the Department of Justice, establishing the center at TEEX.

NERRTC is charged with establishing a comprehensive, national training and service delivery program to prepare firefighters, police, emergency medical responders, and collateral public agency personnel to respond to nuclear, biological, and chemical (NBC) terrorism in the United States.

Located at the TEEX Fire and Rescue Training Facility in College Station, the Center will feature virtual-reality simulators combined with various hands-on training tools and scenarios to simulate a wide range of WMD incidents. A highlight of training will be "Disaster City." This mock city of realistic buildings, specialized infrastructures, and collapsible props will simulate a city that has been targeted for a WMD terrorist attack.

NERRTC has also been named to the National Domestic Preparedness Consortium. The consortium's other members include the Energetic Materials Research and Testing Center at New Mexico Technical University, the National Center for Bio-Medical Research and Training at Louisiana State University, the Nevada Test Site, and the National Center for Domestic Preparedness at Fort McClellan, AL.

For additional information on courses, please contact:

TEEX/Fire Training Division
Mr. Rick Tye, (409) 845-3004

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EQUIPMENT INFORMATION

The RPI Team continues to expand and strengthen its association with vendors. Several companies offering equipment of potential use to MMST system response have recently contacted us. In our effort to continue "Sharing the Knowledge," it is our pleasure to pass this new information on. Attached, you will find copies of the data we have received on several new products. As we have previously indicated, we are distributing this information to assist you in your equipment identification process; however, no recommendations or endorsements are implied.

NBC Agent Decontamination

Reactive Skin Decontaminant Lotion (RSDL) was conceived and developed by the Canadian Armed Forces for battlefield use against chemical warfare agents. This product is now available to civilian first responders and MMST system personnel who may be exposed to chemical or biological warfare threat agents. Based on Canadian Armed Forces testing, **RSDL** is non-irritating and compatible with all skin types, decontaminates and destroys nerve and blister agents, removes and partially destroys a broad range of biological agents, and may be used for wound decontamination.

RSDL is easily applied to skin or equipment, neutralizes and destroys the agent, and leaves no toxic by-products or residue. Once applied, **RSDL** may be washed off with soap and water or plain water. For additional product information, please refer to:

MODEC, Inc., on the Internet at

www.massdecon.com

or contact: MODEC, Inc., Denver, CO,
Mr. Brian Kalamanka at (303) 286-1546

O'Dell Engineering Ltd., on the Internet at

www.odell.on.ca

or contact: O'Dell Engineering Ltd., Ontario,
Canada, Mr. Philip O'Dell at (519) 740-8620

Emergency Shelter Systems

TVI Corporation, with extensive experience manufacturing rapid deployment shelter systems for the military, announces their **MMST Disaster Response** line of quick-erect shelters. The line includes shelters designed specifically for **Incident Management, Decontamination, Casualty Triage/Treatment, Victim Assistance, and Remains Recovery**, along with a variety of scene management devices. Other TVI products include utility trailers, positive-pressure air-filtration systems, and lighting systems. For additional information, please refer to:

TVI Corporation, on the Internet at

www.tvicorp.com

or contact: TVI Corporation, Glenn Dale, MD,
Mr. Chad Sample at (301) 352-8800.

GENERAL INFORMATION

The MMST Support Team has received correspondence from Motorola regarding the upcoming "Year 2000 Crisis" (Y2K) and its potential impact on users of Motorola's Land Mobile Products Sector (LMPS). Motorola offers their assistance and identifies a three-step process to use in order to minimize or eliminate potential degradation of communications capabilities. We are providing copies of this correspondence for your information and use.

The MMST Support Team has been informed that the FBI's Hazardous Devices School (HDS), located on Redstone Arsenal in Huntsville, AL, has developed the preliminary curriculum and conducted their pilot WMD course.

HDS is the certifying school for civilian Bomb Disposal (BD) technicians from the law enforcement and fire communities. This new course is designed to enhance first responder safety through expanded awareness, knowledge, and capabilities within the BD community.

For additional information on course prerequisites and availability, please contact your local FBI field office.

EQUIPMENT INFORMATION

GENERAL INFORMATION

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The General Accounting Office (GAO) has released a series of reports to Congressional Committees regarding the U.S. Domestic Preparedness Program. The specific reports are:

Combating Terrorism
"Threat and Risk Assessments Can Help Prioritize and Target Program Investments"
GAO/NSIAD-98-74

Combating Terrorism
"Observations on Crosscutting Issues"
GAO/NSIAD-98-164

Medical Readiness
"Efforts Are Underway for DoD Training in Civilian Trauma Centers"
GAO/NSIAD-98-75

The first copy of each report is free; additional copies are \$2.00 each. You may order by telephone at (202) 512-6000 or by fax at (202) 512-6061.

To order reports by mail, send your request to:

U.S. General Accounting Office
P.O. Box 37050
Washington, DC 20013

To access GAO reports on the Internet, send an E-mail message with "info" in the body to info@www.gao.gov, or visit the GAO home page at <http://www.gao.gov>.

National Emergency Management Association (NEMA)

<http://www.nemaweb.org>

Occupational Safety and Health Administration

<http://www.osha.gov>

IIT Research Institute (IITRI), Chicago, IL

<http://www.iitri.com>

Meridian Medical Technologies, Inc.
Manufacturer of Auto-Injectors and MK I Nerve Agent Antidote Kit (NAAK)

<http://meridianmeds.com>

North American Rescue Products
Manufacturer of the "Raven" litter and other emergency medical/response products. Links to other Emergency Management sites.

<http://www.NARescue.com>

ATTACHMENTS

Motorola's Letter Re: Year 2000 Crisis
RSDL Pamphlet
TVI Corporation Shelter Handouts

WEB SITES OF INTEREST



MOTOROLA

March 26, 1998

Dear Motorola Valued Customer:

As a customer of Motorola's Land Mobile Products Sector (LMPS), we would like to make sure that you are actively preparing yourself for any issues caused by the Year 2000. The Year 2000 issue requires action. There has been a great amount of publicity concerning the potential problems the turn of the century -- the Year 2000 -- may cause. There also is an increasing concern that some companies may not be adequately preparing themselves in all areas of possible impact. We would like to extend an offer to help you navigate through our LMPS products as quickly and efficiently as possible. We hope this assistance will expedite your Year 2000 readiness efforts in regard to our products. Hopefully, this will eliminate one area of concern for you and allow you to focus your efforts in other areas.

Year 2000 Readiness Status for LMPS Current Products. We have completed an analysis of most of our current products and, as your supplier, we want to make the status of this review available to you. What this means to you is that you can easily identify which of our products are Year 2000 ready. This information is available through your normal direct sales channels and also is available on our **Year 2000 Readiness Web Site at www.mot.com**. This list of products includes our current products, parts and accessories. At this time, this list does not include all discontinued products not currently in our price books. Once LMPS determines the Year 2000 readiness of a discontinued product, we will add that information to our web site.

The web site also includes Motorola's definition of "Year 2000 Ready" as it applies to our products. A copy of this definition is attached for your convenience.

It is a Good Idea to Assess the Year 2000 Readiness of Each Product In Your "System." For our system customers, as you proceed with the three-step process described below, we recommend you include in your assessment all the things that make up your "system." LMPS products, whether or not they contain a Motorola brand label, often are only a part of a customer's total communication system. As such, you are in the best position to determine what Motorola branded and non-Motorola products make up your particular system. To avoid potential problems later, you should assess the Year 2000 readiness of each of those products.

Years of LMPS Product Sales Experience May Prove Helpful. Whether it's a standard or customized LMPS product, for more than 50 years LMPS has sold and serviced its products to customers like you through our direct sales forces and our Motorola authorized equipment service providers. That activity results in a base of knowledge you may be able to tap into to assist you in the coming months as you manage your way to a full resolution of any Year 2000 ready issues relating to your LMPS products.

We Recommend You Use a Three-Step Process. In order for you to most effectively use our services, we suggest that you follow a three-step process: Inventory, Readiness Assessment and Resolution. We have provided a number of resources to help you along the way.

Inventory the LMPS Products You Have Purchased. You should inventory your system. For equipment, you should capture the Motorola model number and serial number. For software, you should capture the model number, model description and the software version you are using. While this needs to be conducted within your environment, we do have limited resources that may be able to help your inventorying effort. If you find a need for this help, please contact your Account Representative or call our 1-888 number listed below as soon as possible.

Determine Readiness Status. Once you have a complete inventory, you will now need to determine the Year 2000 readiness status of this equipment. While you are in the best position to determine the readiness of your LMPS products and systems, we recommend you first review your

inventory against the LMPS product list in our web site. Again, more information may be available by calling your Account Representative or our toll-free number.

Resolve Any Issues. As you assess your readiness status, you may discover that some of the LMPS products you are using are not Year 2000 ready. In some instances, product alternatives will be listed on our web site. Additionally, you may want to contact your Account Representative or call our 1-888 number for more information.

We value our long term commitment to you, our customer. We urge you to begin this process as soon as possible. Use the tools we have provided to help you determine Year 2000 readiness of your systems. If you wish to have LMPS assist you, please call our Customer Connection at 1-888-LMPS-DIR. Visit our web site for the most up-to-date information on Year 2000 readiness. If you have additional questions, please contact your Account Representative.

**LMPS Y2000 Readiness Web Site ---
www.mot.com
1-888-LMPS-DIR for LMPS DIRECT
(1-888-567-7347)
PRESS "5" and ENTER ext 2000**

Sincerely,



Bob Barnett
Executive Vice President and President and General Manager
Land Mobile Products Sector

What "Year 2000 Ready" Means for LMPS Products

Year 2000 Ready means the capability of an LMPS product, when used in accordance with its associated documentation, to correctly process, provide and/or receive date data in and between the years 1999 and 2000, including leap year calculations, provided that all other products and systems (for example, hardware, software, and firmware) used with the LMPS product properly exchange accurate date data with it.

- This definition only applies to those LMPS products which exchange date data and which are identified as Year 2000 Ready.
- This definition is not a statement of warranty and may not be interpreted to expand any warranty provided with products supplied by LMPS.
- Please note that certain LMPS products shall require upgrades to be Year 2000 Ready. Please contact your LMPS sales office for details on availability and prices, if applicable, of the upgrades.



MOTOROLA

Dear Motorola Valued Customer:

As you know, Motorola Land Mobile Products Sector (LMPS) would like to make sure that you are actively preparing yourself for any issues caused by the Year 2000. In an effort to assist you in this process as it relates to LMPS products, our Services Organization is making available Year 2000 Ready (Y2Ry™) Communications Services for our U.S. and Canada Group (USCG) customers who wish to procure additional assistance in inventorying their systems. However, because the LMPS Services Division has limited resources available to assist you in your Year 2000 effort, our ability to respond will be based on the resources that we have available to perform these specialized services at the time of your request.

The Y2Ry Communications Services will consist of a two-phased approach -- Inventory and Review. The first phase involves helping you inventory your system. For equipment, we will assist in capturing the model and serial numbers. For software, we will capture the same information along with the software version number.

Once the inventory phase is complete, the next phase for which we can provide you assistance involves reviewing the inventory list against the LMPS product list to determine Year 2000 readiness status.

At the conclusion of the review phase, you may discover that some of the LMPS products you are using are not Year 2000 ready. If you have procured Y2Ry Communications Services, we may be able to assist in your review of product alternatives that may include hardware, firmware, or software upgrades or replacement.

As you know, system configurations may vary from customer to customer. Accordingly, the price for these services may also vary. Quotations for Y2Ry Communications Services will be provided upon your request.

If you wish to take advantage of the Y2Ry Communications Services, please contact your local Motorola USCG Account Executive or contact us directly at 1-888-LMPS DIRect (1-888-567-7347, press "5" and enter EXT. 2000).

Sincerely,

Kevin McHugh

Vice President and General Manager

United States and Canada Service Division

THE MMST DISASTER RESPONSE SHELTER FAMILY

Collapsible one-piece, clear-span rapid deploy tents solve MMST shelter requirements -

- rapid deployment; erects in minutes without inflation, power, or tools
- chemically inert and non-reactive component materials; extended shelf life
- repairable in use; remains functional with up to 30% frame damage
- easy transportability and handling; compact storage; minimum maintenance
- optional ChemBio air pressure filtration systems



→One piece *Quick Erect* design pre-attaches coverings to an articulating scissor beam dome←

DISASTERS PICK THEIR OWN TIME AND PLACE

Disasters tend to strike under the most adverse circumstances in terms of location, weather, time, and characteristics. As evidenced by recent plane crashes and train derailments, the disaster site presents few facilities for transportation, logistics, or communications. Yet such horrible disasters are small when compared to the Los Angeles earthquake or Oklahoma City bombing. But even these catastrophes may be made small by the scope of a terrorist attack employing super explosives and/or chem-bio agents. Sadly, there appears a significant probability that future disasters may occur as a result of a Weapon of Mass Destruction, and that a large population may be involved.

THE CHALLENGE TO DISASTER RESPONSE PLANNING

Great additional personal and property damage will result from major disasters if Disaster Response infrastructure is inadequate. If terrorism is involved, even national security may be compromised. Thus, Disaster Response Planning must address a range of catastrophes and not just limited events such as an isolated plane crash. Major problems to be dealt with include:

- | | |
|----------------------|-------------------|
| - crowd control | - decontamination |
| - medical care | - personal needs |
| - power, water, HVAC | - site management |
| - weather protection | - communications |

These functions will almost always require some kind of shelter - these functions must be enclosed to achieve structure, efficiency, privacy, security, weather protection, and climate control.

The MMST Disaster Response Shelter family provides the Planner with a wide choice of custom designed shelters for efficient, reliable, and economical solutions.

THE MMST DISASTER RESPONSE SHELTER FAMILY

The MMST line includes shelters designed for specific Disaster Response functions. All shelters can be chemically hardened with pressure filtration systems. Shelters differ in width and length, in configuration, in accessories, and in use and type of Liner. Special purpose Canopies are also available. All shelters have common doors for complexing shelters together. The Preparedness Planner can develop Response Plans for several contingencies employing a common inventory.

Incident Management Shelters

Easily handled *Command Post* shelters are deployed in two minutes for critical incident management, providing immediate housing for command, communications, PR, and security functions. Can be interfaced with HVAC or pressure filtration systems to protect critical staff and equipment. The *Sentry Booth* provides staff protection and reference point. *Que Canopies* provide both weather protection and focal points to facilitate victim flow.

Scene Management Devices

Quick erect *Signs* and *Barriers* provide scene identification and containment, crowd control, and victim flow. They give directions or instructions to both victims and professional staff.

Decontamination Shelters

Available in choice of lengths and designed to accommodate waterheater and shower systems. Rugged and instantly deployable, they provide an efficient enclosure for all decontamination measures. An optional water containment floor is available.

Mass Casualty Triage Shelters

These large shelters may be deployed immediately and provide ample room and effective coordination of victims and stretcher bearers by the Triage Staff. The 18 foot interior width provides for two rows of litters with a walkway for traffic.

Medical Care Shelters

Treatment shelters will be a must for any large scale disaster or when normal evacuation mechanisms are disrupted. *Patient Care* shelters provide a quality medical environment for treatment, special decontamination, care of patients waiting evacuation, and other patient support.

Victim Assistance Shelters

These shelters for various personal care activities such as counseling, reunion, berthing, and feeding of victims. They also provide security and privacy, and facilitate consequence management efforts in the care and disposition of ambulatory victims.

Remains Recovery Shelters

These shelters are used as field morgues and to support activities for the recovery, identification, and preservation of remains. The Liner is easily sanitized for re-use. Shelters will interface with HVAC and pressure filtration systems.

MMST shelter design and construction

The Disaster Response shelter family is based upon TVI's field proven line of Tactical Shelters. Military unique characteristics have been excluded from the design, while retaining the functional and performance features. The Tactical Shelter line has been used by all of the U. S. military services and by those of several foreign countries.

Design concept

MMST shelters employ TVI's unitized design concept to provide a completely assembled, one piece unit which can be erected in two to five minutes without tools or equipment. This design achieves an almost instant high performance shelter at disaster sites where critical life saving and property protecting measures must be initiated as quickly as possible.

The unitized design is based upon an articulating frame which uses scissor beams to form a collapsible, self-supporting geodesic dome. The clear span dome expands with simple manual pressure into a structural frame which when fixed in position with simple locking straps becomes a rugged and robust skeletal frame structure. Repairs can be made while the shelter is in use.

The unitized design is implemented by the pre-attachment of exterior canopy and interior liner. These claddings are fabricated with accessories and features specific for the intended purpose.

Frame construction

Shelter frames are fabricated from high grade tempered aluminum tubes which are anodized to resist acids and corrosive substances. The articulating node is injection molded from high performance polypropylene. The custom anchoring bolts are made from stainless steel. These inert and non-reactive materials preclude shelter damage from toxic substances.

Cladding construction

Canopy and liner are made from high quality balloon cloth which is Fire Retardant and UV Resistant. It is easily cleaned, and its heavy vinyl coating is resistant to scuffing and chemical damage. Canopies are available in several colors, and regular liners are provided in white. Special purpose liners are made from special fabrics such as Tyvek or polyethylene.

Accessories

All accessory items are either military standard or commercial tent grade materials. The ground cloth and transport bags are military grade tent fabric. Window screen and window/skylight vinyl are also military standard.

Warranty

Shelters are unconditionally guaranteed against defects in material or workmanship for one year.

Other MMST products

Utility trailers, pressure filtration systems, lights, and related products are also available.

For additional information, please contact or visit the company at the address below. E-mail us at shelters@tvicorp.com or contact us on the Internet at www.tvicorp.com.

TVI Corporation 7100 Holladay Tyler Road Glenn Dale, Maryland 20769
Phone: 301-352-8800 Fax: 301-352-8818

MMST Class Shelters Provide Emergency Space in Hazardous Materials Spill Drill

Urban Vehicular Crash:

- badly damaged mass transit bus
- overturned gasoline tanker
- leaking sulfuric acid car



Mass Casualties:

- severe trauma cases
- many walking injured
- heavy contamination
- anxious crowds

TVI's unique pop-up shelters provide a highly portable and rugged solution to on-site space needs for emergency EMS and HazMat activities. The light-weight collapsible scissor beam frame pops up to provide a sturdy clear span geodesic type dome. Pre-attached canopies and liners provide immediate protection, privacy, and containment enclosures. The TVI shelters pictured in this Drill provided about 1,000 square feet of floor space and were erected within five minutes by four technicians.



Decontamination Shelter



Mass Casualty Triage Shelter

RSDL Background :

RSDL was conceived, developed and patented by the Canadian Armed Forces through the Canadian Defence Research Establishments in Ottawa and Suffield.

Real Chemical Defence :

Reactive Skin Decontaminant Lotion (RSDL) provides soldiers, for the first time, with an effective and easy means of real broad spectrum chemical decontamination for themselves and their equipment. In Canadian Forces testing, RSDL applied to a chemical agent neutralises and destroys the agent leaving no toxic by-products to be removed or discarded. Applied RSDL can be washed off with water, or soap and water.

RSDL Effectiveness : Canadian Forces Testing

RSDL has been tested effective against G and V agents, and vesicants (H and L). RSDL has been authorized by the Health Protection Branch of Canada for use by the Canadian Forces. RSDL has been used in operations with the Canadian Forces in the Persian Gulf Conflict and with the Canadian and UN Special Commission Chemical Destruction Group (Op Forum Teams) in Iraq.



Decontaminates and destroys chemical agents :

- ◆ Sulphur Mustard -HD
- ◆ Lewisite - L
- ◆ Tabun - GA
- ◆ Sarin - GB
- ◆ Soman - GD
- ◆ GF
- ◆ VX & Others

Removes and partially destroys :

- ◆ A Broad Spectrum of Biological Agents

Can be used as a wound Decontaminant :

- ◆ Canadian Forces Method for casualty decontamination
- ◆ Medical treatment is faster and safer for patient and medical personnel.



Decontamination of Face & Head

RSDL Performance :

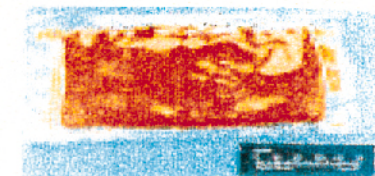
(Based on Canadian Forces Testing)

Neutralizes and destroys all tested nerve and blister agents:

- ✓ Self - Indicating Reactivity
- ✓ Does not irritate skin
- ✓ Compatible with all types of skin
- ✓ Minimized aggravation of eyes
- ✓ Can be washed off with water
- ✓ Reacted products are non - toxic
- ✓ Compatible with weapons systems
- ✓ Compatible with other personal application materials
- ✓ Inactive simulant lotion provides low cost, realistic training

RSDL Three Parts System :

- Individual Single Use Pouch
Easy to tear open
Impregnated foam pad for application
- 45 g



- Bulk Dispensing Bottle
Medical or emergency use
- 500 mL



- Inactive Training Simulant Single Use Pouch
- 45 g